

JSH

PAUS

ACL

11/9

This memo on the [redacted]
program was written prior to the
news received yesterday from [redacted]
that NRO may be hedging somewhat
on picking up the travel costs for
this program. At stake is about
[redacted] of travel money to pay for
sending our PJ's to a training
course in Arizona. This was

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FORM NO. 101
1 AUG 54

REPLACES FORM 10-101
WHICH MAY BE USED.

(over)

(47)

Declass Review by
NIMA/DOD

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[redacted] had
[redacted] with [redacted] the NRO
project officer. [redacted] being
advised to have [redacted] send
ACL a letter requesting this
funding support if NRO decides
to push it that far. ACL's
letter to [redacted] said that we
would support this project
with the understanding that NRO
picked up all the cost involved.
af /11/19

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[redacted]

10 November 1970

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MEMORANDUM FOR THE RECORD

SUBJECT: Planning Meetings on Project [redacted]

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1. On 21 October 1970, the undersigned met with [redacted] of NRO in order to obtain more facts for planning purposes. The results of that meeting are consolidated with another meeting held at NPIC on 27 October and summarized below.

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2. The working group was composed of the following individuals:

[redacted]

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3. Funding - NRO will provide funds to NPIC for all exceptional expenses directly related to [redacted] such as, travel, training, contractual assistance, etc. [redacted] submitted a preliminary work statement amounting to a total estimate of [redacted] (Attachment #1). The tasks were discussed without any definite approval being made. [redacted] is to present a proposal for a time and materials contract, which appears to be the most flexible type for this project. If the project is terminated, contract payments will cease. (After the meeting, [redacted] said that the [redacted] was no problem and could be met by NRO.)

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When the undersigned asked [redacted] at the 27 October meeting if NRO was still going to foot the bill, he appeared to hesitate, but after a short discussion with [redacted] he said that they would.

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GROUP 1
Excluded from automatic
downgrading and
declassification

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[redacted]

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4. Targeting - [] NPIC, presented a list of 50 Cuban targets listed in order of priority and covering 20 categories of targets of interest. The specific targets included geographic coordinates and BE numbers (see attachment #2). This list will be reviewed by analysts from CIA and DIA.

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[] also displayed a map showing the flight root segments for each group of targets. [] said that current flight restrictions are for root segments of no more than 50 miles. However, he believed that this restriction may not apply for night flights. He will check further into this.

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The composition of the target folders was discussed and the committee agreed that they should contain maps, OLD HEAD collateral photography, and other non-codeword collateral.

The Cuban target team is scheduled to have its target headers and target folder completed on or about 16 November.

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5. Exploitation/Evaluation Teams - It was decided to increase the number of teams to six teams, one more than previously decided, in order to provide a backup team. The teams will still consist of three individuals each: one PI from NPIC, one analyst from DIA or CIA (CIA may only provide a total of one), one radar specialist from one of the three contractors (each providing a total of two men).

Team members will come from the several organizations as follows: six PIs from NPIC, five analysts from DIA, one analyst from CIA, two SLR specialists from [] two SLR specialists from [] two SLR specialists []

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6. Training - [] will conduct radar courses designed for those who have had little or no radar training or experience. [] will give two courses of $1\frac{1}{2}$ to 2 weeks each at [] the first will start 15

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January 1971 for six PIs who have had basic radar, and the second 15 February 1971 for six analysts who have not had basic radar.

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[] will conduct a course designed primarily for orientation and familiarization with the imagery produced by [] and for practicing exploitation procedures and methods. This training will be staggered in two-to-three day periods from mid March to 1 April 1971.

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Two to three NPIC personnel from IEG and APSD will be given correlator training at [] at staggered sessions between 15 Feb. 1971 to 1 April 1971.

7. Mapping Coverage - TOPOCOM and DIAMC proposed two areas of Cuba for radar mapping coverage. Stereo coverage is highly desirable so the area will be covered either from opposite sides of the area at a depression angle of 45° , or if this is not possible, from one side at depression angles of 40° and 60° .

8. Recap of Time Schedule (Approximations) -

[]

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16 November - Cuban target team completes target headers and target folders.

17 November - Flight planners begin work with target teams for final flight plans.

1 December - []

15 January - First [] training class begins.

1 February - All data from [] evaluations due in [] (for further evaluation before [] flights).

15 February - Second [] training class begins.

15 February to 1 April - [] First five for engineering adjustments. The next ten for PI target evaluation.

15 March to 1 April - [] rehearsal/training classes.

1 April to 15 May - [] Cuban test missions; PI exploitation and evaluation and analysts' intelligence evaluations.

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9. Photogrammetry, Mensuration and Flight Parameters - NRO had given no consideration to parameter information required for photogrammetry and mensuration. Also, no mention had been made of the nature, characteristics, content, and output of the data block and INS. At [] request, NRO will provide this data soonest or we may have to get it from []. Once obtained, it will be reviewed by photogrammetrists and technicians from APSD and IEG/PHD. Their requirements will then be fed back to NRO for action.

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10. Equipment [] is responsible for obtaining rear projection viewers. Suggested suppliers of viewers include, NRTSC (Evaluation Department), TOPOCOM, and []

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11. It is hoped that the preparation of briefings on [] can begin o/a 13 November, dependent upon the receipt of more factual information. Coordination will be made with [] of IEG for the participation of his Group.

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PROJECT OFFICER

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IEG COORDINATOR

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Attachments:

1. Work Statement
2. IEG Memo, dated 21 Oct. 70

Distribution:

- Cy 1 - O/Dir/NPIC
2 - Ch/PPBS/NPIC
3 - Ch/SS/NPIC
4 - Ch/TSG/NPIC
5 - Ch/RED/TSG/NPIC
6 - Ch/ATB/RED/TSG/NPIC
7 - Ch/APSD/TSG/NPIC
8 - Ch/IEG/NPIC
9 - Ch/OD/IEG/NPIC []
10 - Ch/PSG/NPIC
11&12 - Ch/RSB/RED/TSG/NPIC

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WORK STATEMENT -- RADAR EXPLOITATION PROGRAMI. OPERATIONAL SUPPORT

	<u>Time Period</u>	<u>Man Months</u>
A. Flight Planning	8 months	3
B. Interpretation	2 months	2
C. Analysis/Final Report	1 month	1

II. R&D AND TRAINING

[REDACTED]	1 month	2
B. Interpretation & Testing & Analysis	4 months	84
C. Training Package Compilation & Training Session Monitoring	3 months	3



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I. OPERATIONAL SUPPORT

A. Flight Planning

Contractor will provide consulting services to the working group for establishing imagery collection parameters including:

1. Target aspect and depression angles.
2. Frequency of coverage.
3. Day, night, or weather coverages.
4. Photographic acquisition.
5. Correlation (quality for exploitation).

B. Interpretation

Contractor will provide the following:

1. Team radar interpretation support.
2. Backup interpretation support (as needed).

C. Analysis/Final Report

Contractor will provide:

1. Data analysis for working group report.
2. Report writing and graphic preparation.

II. R&D AND TRAINING



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Radar flight line parameters to be considered include:

1. Target selection assistance.
2. Aspect and depression angles.
3. Frequency.
4. Day, night, or weather coverages.
5. Correlation needs.
6. Change detection requirements.

Contractor will also provide ground truth acquisition.

B. Interpretation and Testing

Contractor will provide:

1. Image interpretation support.
2. Integration of ground truth.
3. ~~Establishment of test design (radar-to-radar; radar-to-photo; photo alone).~~
4. ~~Establishment of test packages.~~
5. ~~Conduct of test (manual and semi-automatic).~~
6. ~~Analysis of test results.~~
7. ~~Final report.~~

separate
tests - not
included.
DELETE

C. Training Package Complication

Contractor will provide:

1. Self-training packages for:
 - a. Various target types.
 - b. Differing environments (vegetation, snow, etc.)
 - c. Varying collection parameter.
2. Monitoring of training sessions.

LEG/WGD/MRAAFAB
21 October 1970

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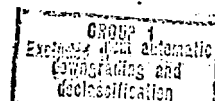
Target Categories

The following types of Cuban targets are recommended for side-looking radar coverage. The order of priority is reserved for the Project only:

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<u>Priority</u>	<u>Number</u>	<u>Type</u>	<u>Code</u>
1.	9	Naval base or port	(NB)
2.	3	SA-2	(SA)
3.	3	SA-2 Support/SSM-cruise	(SS)
4.	4	Military airfield	(MA)
5.	1	Commercial airfield	(CA)
6.	6	Military camp	(MC)
7.	1	Radar	(RD)
8.	1	Underground storage	(UG)
9.	1	Storage depot	(SD)
10.	1	Oil refinery	(RE)
11.	1	Marshalling yard	(ML)
12.	1	Power plant	(PP)
13.	2	Bridge	(BG)
14.	1	Industrial plant	(PL)
15.	1	Sugar products factory	(SF)
16.	3	Route reconnaissance	(RT)

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Target Categories (Cont'd)

<u>Priority</u>	<u>Number</u>	<u>Type</u>	<u>Code</u>
17.	6	Ocean reconnaissance	(OR)
18.	1	Cruise site-UNP	(CS)
19.	1	MRBM site-UNP	(MB)
20.	3	Guantanamo fence	(G-)

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Targets

<u>Item</u>	<u>Priority</u>	<u>Name</u>	<u>Coordinates</u>	<u>Code</u>
1.	1	La Habana Port Fac	230750N 0822050W	(NB)
2.	1	Maríel Naval Base	230030N 0824610W	(NB)
3.	1	Cabanas Naval Base	225850N 0825840W	(NB)
4.	1	Cienfuegos Port Fac	22203N 08028W	(NB)
5.	1	Santiago Naval/Port	200049N 0755026W	(NB)
6.	1	Matanzas Port Fac.	230340N 0813305W	(NB)
7.	1	Nuevitas Port Fac/Port	213237N 0771237W	(NB)
8.	1	Puerto Manati Port Fac	212128N 0764932W	(NB)
9.	1	Preston Port Fac	204550N 0753917W	(NB)
10.	2	Punta Brava SAM A30-2	231032N 0823134W	(SA)
11.	2	Ranchvelo SAM A33-2	222350N 0801002W	(SA)
12.	2	Sevilla SAM A27-2	200018N 0754448W	(SA)
13.	3	Torrens Mis Sup Fac SAM	225748N 0822753W	(SS)

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Targets (Cont'd)

<u>Item</u>	<u>Priority</u>	<u>Name</u>	<u>Coordinates</u>	<u>Code</u>
14.	3	San Padro de Cacocum	204545N 0761540W	(SS)
15.	3	San Jose D.L.L. SSM 2	225538N 0821027W	(SS)
16.	4	San Julian AF	220542N 0840907W	(MA)
17.	4	San Antonio D.L. Banos	225216N 0823034W	(MA)
18.	4	Camico Cienfuegos AF	222924N 0795635W	(MA)
19.	4	Holguin AF	204707N 0761854W	(MA)
20.	5	Jose Marti Int'l AF	225922N 0822427W	(CA)
21.	6	Managua Bks & Sch	225805N 0821710W	(MC)
22.	6	La Charca Mil Hq	224608N 0803627W	(MC)
23.	6	Santa Fe La Clarita	214351N 0824638W	(MC)
24.	6	Santiago Mil Bks NW	200325N 0755400W	(MC)
25.	6	Holguin Mil Cp Piedras	205335N 0761335W	(MC)
26.	7	San Miguel Radar	222939N 0795358W	(RD)
27.	8	Tapaste Ammo Dpo NE	230239N 0820701W	(UG)
28.	9	La Rosita Arms Fac & Depot	220830N 0800422W	(SD)
29.	9	Portugalete Mil Depot	225848N 0821224W	(SD)
30.	10	Santiago Pet Re + Stg	200010N 0755219W	(RE)
31.	11	Santa Clara RR-Yds & Shops	222443N 0795750W	(ML)
32.	12	Manzaniggo Diesel PP	202046N 0770713W	(PP)
33.	13	Sancti Spiritus RR BG	215517N 0792655W	(BG)
34.	13	Bayamo Highway BR	202305N 0763930W	(BG)
35.	14	Mantanzas Chem PL	2304N 08132W	(PL)

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Targets (Cont'd)

<u>Item</u>	<u>Priority</u>	<u>Name</u>	<u>Coordinates</u>	<u>Code</u>
36.	15	Vertientes Sugar Ref	211512N 0780922W	(SF)
37.	16	Bahia Hondo	2254N 08310W	(RT)
		Havana	2305N 08225W	(RT)
38.	16	Colon NE	2248N 08050W	(RT)
		Placetas	2219N 07940W	(RT)
39.	16	Ciego de Avila N.W.	2155N 07845W	(RT)
		Marshena	2114N 7740W	(RT)
40.	17	S.E. Cienfuegos	2154N 08031W	(OR)
			2117N 07958W	(OR)
40A.	17	Cayo Largo	2135N 08214W	(OR)
			2140N 08057W	(OR)
41.	17	S.S.E. Santiago	1908N 07533W	(OR)
			1959N 07554W	(OR)
42.	17	Coastal - W. Cabanas	2301N 08307W	(OR)
		S.E. Havana N.E. Havana	2313N 08218W	(OR)
43.	17	Coastal - N.E. Havana	2314N 08204W	(OR)
		N.E. Cardenas	2312N 08105W	(OR)
44.	17	Coastal - Nuevitas	2134N 07710W	(OR)
		Cancte	2034N 07442W	(OR)
45.	17	Coastal - Batabana	2221N 08218W	(OR)
		Nueva Gerona	2144N 08249W	(OR)
46.	18	Siguanea SSM Site Cruise	213725N 0825815W	(CS)

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[redacted] targets (Cont'd)

<u>Item</u>	<u>Priority</u>	<u>Name</u>	<u>Coordinates</u>	<u>Code</u>
47.	19	San Cristobal MRBM 3	224250N 0830815W	(M)
48.		Guantanamo Fence West	2014N 07513W	(GW)
			1950N 07515W	(GW)
49.		Guantanamo Fence North	2000N 07520W	(GN)
			2000N 07456W	(GN)
50.		Guantanamo Fence East	2012N 07504W	(GE)
			1950N 07503W	(GE)

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